OIPE

, 1

DATE: 08/28/2001 RAW SEQUENCE LISTING TIME: 14:25:40 PATENT APPLICATION: US/09/918,887

Input Set : N:\Crf3\RULE60\09918887.txt Output Set: N:\CRF3\08282001\I918887.raw

## SEQUENCE LISTING

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4 (1) GENERAL INFORMATION:
             (i) APPLICANT: Rybak, Susanna M.
      6
                             Newton, Dianne L.
      7
                            Goldenberg, David M.
      8
            (ii) TITLE OF INVENTION: Immunotoxins Directed Against Malignant
     10
     11
                                      Cells
           (iii) NUMBER OF SEQUENCES: 3
     13
     15
            (iv) CORRESPONDENCE ADDRESS:
                  (A) ADDRESSEE: Townsend and Townsend and Crew LLP
     16
                  (B) STREET: Two Embarcadero Center, Eighth Floor
     17
                  (C) CITY: San Francisco
     18
                                                                  ENTERED
                  (D) STATE: California
     19
     20
                  (E) COUNTRY: USA
                  (F) ZIP: 94111-3834
     21
             (V) COMPUTER READABLE FORM:
     23
                  (A) MEDIUM TYPE: Floppy disk
     24
                  (B) COMPUTER: IBM PC compatible
     25
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     26
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     27
     29
            (vi) CURRENT APPLICATION DATA:
C--> 30
                  (A) APPLICATION NUMBER: US/09/918,887
                  (B) FILING DATE: 30-Jul-2001
C-->31
                  (C) CLASSIFICATION:
     32
     34
           (vii) PRIOR APPLICATION DATA:
                  (A) APPLICATION NUMBER: 09/071,672
     35
                  (B) FILING DATE: 01-MAY-1998
     36
          (viii) ATTORNEY/AGENT INFORMATION:
     39
                  (A) NAME: Weber, Ellen Lauver
     40
                  (B) REGISTRATION NUMBER: 32,762
                  (C) REFERENCE/DOCKET NUMBER: 015280-32510US
     41
            (ix) TELECOMMUNICATION INFORMATION:
     43
     44
                  (A) TELEPHONE: (415) 576-0200
                  (B) TELEFAX: (415) 576-0300
     45
     48 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     50
                  (A) LENGTH: 104 amino acids
     51
     52
                  (B) TYPE: amino acid
     53
                  (C) STRANDEDNESS:
     54
                  (D) TOPOLOGY: linear
     56
            (ii) MOLECULE TYPE: protein
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            (ix) FEATURE:
                  (A) NAME/KEY: Modified-site
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                  (B) LOCATION: 1
     61
     62
                  (D) OTHER INFORMATION: /product= "OTHER"
     63 /note= "Xaa = Glu or pyroglutamic acid"
     65
            (ix) FEATURE:
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Input Set : N:\Crf3\RULE60\09918887.txt Output Set: N:\CRF3\08282001\I918887.raw 66 (A) NAME/KEY: Protein 67 (B) LOCATION: 1..104 (D) OTHER INFORMATION: /note= "RNase A derived from 68 69 Rana pipiens, "onc protein"" 72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: W - - > 74Xaa Asp Trp Leu Thr Phe Gln Lys Lys His Ile Thr Asn Thr Arg Asp 75 10 77 Val Asp Cys Asp Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys Asp 78 20 25 80 Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile Cys 81 35 40 45 Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe Tyr 83 84 50 60 Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu Lys 86 87 65 70 75 80 89 Lys Ser Thr Asn Lys Phe Cys Val Thr Cys Glu Asn Gln Ala Pro Val 85 90 95 90 92 His Phe Val Gly Val Gly Ser Cys 93 100 96 (2) INFORMATION FOR SEQ ID NO: 2: 98 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 249 base pairs 99 (B) TYPE: nucleic acid 100 101 (C) STRANDEDNESS: single 102 (D) TOPOLOGY: linear W--> 104(ii) MOLECULE TYPE: DNA 107 (ix) FEATURE: 108 (A) NAME/KEY: -109 (B) LOCATION: 1..249 (D) OTHER INFORMATION: /note= "nucleic acid encoding 110 111 "onc protein"" 114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 116 GATGTTGATT GTGATAATAT CATGTCAACA AACTTGTTCC ACTGCAAGGA CAAGAACACT 60 118 TTTATCTATT CACGTCCTGA GCCAGTGAAG GCCATCTGTA AAGGAATTAT AGCCTCCAAA 120 120 AATGTGTTAA CTACCTCTGA GTTTTATCTC TCTGATTGCA ATGTAACAAG CAGGCCTTGC 180 122 AAGTATAAAT TAAAGAAATC AACTAATAAA TTTTGTGTAA CTTGTGAAAA TCAGGCACCA 240 124 GTTCATTTT 249 127 (2), INFORMATION FOR SEQ ID NO: 3: (i) SEQUENCE CHARACTERISTICS: 129 130 (A) LENGTH: 83 amino acids 131 (B) TYPE: amino acid 132 (C) STRANDEDNESS: (D) TOPOLOGY: linear 133 135 (ii) MOLECULE TYPE: protein 138 (ix) FEATURE: 139 (A) NAME/KEY: Protein 140 (B) LOCATION: 1..83 (D) OTHER INFORMATION: /note= ""onc protein", positions 16-98 141 142 of SEQ ID NO:1"

RAW SEQUENCE LISTING

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145	(xi)	SEQU	JENCI	E DES	SCRIE	OITS	N: S1	EQ II	ON C	: 3:						
147	Asp	Val	Asp	Cys	Asp	Asn	Ile	Met	Ser	Thr	Asn	Leu	Phe	His	Cys	Lys
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150	Asp	Lys	Asn	Thr	Phe	Ile	Tyr	Ser	Arg	Pro	Glu	Pro	Val	Lys	Ala	Ile
151				20					25					30		
153	Cys	Lys	Gly	Ile	Ile	Ala	Ser	Lys	Asn	Val	Leu	Thr	Thr	Ser	Glu	Phe
154			35					40					45			
156	Tyr	Leu	Ser	Asp	Cys	Asn	Val	Thr	Ser	Arg	Pro	Cys	Lys	Tyr	Lys	Leu
157		50					55					60				
159	Lys	Lys	Ser	Thr	Asn	Lys	Phe	Cys	Val	Thr	Cys	Glu	Asn	Gln	Ala	Pro
160	65					70					75					80
162	Val	His	Phe													

**VERIFICATION SUMMARY** 

DATE: 08/28/2001

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TIME: 14:25:42

Input Set : N:\Crf3\RULE60\09918887.txt
Output Set: N:\CRF3\08282001\I918887.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:104 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2